

Keigley Quarry Reclamation Chronology

- Sept. 9, 1976 Initial Letter from U.S. Steel Arranging a meeting to review quarry application
- Sept. 27, 1976 Preliminary NOI received --- 620 acres to be disturbed -- 400 acres present
Noted old disturbance - no topsoil saved - none on pits & dumps.
- Oct. 19, 1976 Site visit by Ron Daniels & Brian Buck
U.S. Steel planning on nature to revegetate site. No Division endorsement. Division observed prolific amounts of native rabbit brush on 5 to 10 year old dumps. Trial revegetation plots on dumps were "decidedly less impressive." More trial plots recommended with more drought resistant grasses - Different ground prep. Waste to be dumped into abandoned quarries to eliminate steep highwalls.
- Oct. 29, 1976 Letter to USX with comments on preliminary reclamation plan. - Assure debris and buildings to be removed when operations cease. - Fence accessible areas. - Provide 5' rick upslope to highwalls. - Remove acreage figures for future work until it is planned, to reduce surety. Wanted dumps to have some reclamation. Stabilization of waste dumps with specified plant species. Maximum slopes to be 40 degrees with rounded edges. Soil testing - Test plot seed mixture - tests to determine any changes in the plan. Suggested initial irrigation to establish vegetative cover.
- Apr. 13, 1977 Keigley NOI received. 400 acres to be disturbed. Estimated 45% cover on undisturbed slopes, soils were tested and will support vegetation. Depending on traffic to break down soil. Will scarify as conditions demand. Wanted to run test plots to find best seed mixture. Water with water truck *once*, no irrigation, limited use of mill fines for ground cover.
- May 6, 1977 DOGM letter agreeing to test plots for future seed mixtures.
- June 6, 1977 Executed copy of MR-1 & MR-2 received. Returned for notarized signatures.
- June 22, 1977 Signed copies received.
- Aug. 18, 1978 Signed commitment to Reclamation Standards. Variance requested for waste dumps placed in natural channels.
- Feb. 25, 1985 1984 annual report. 400 acres disturbance. <1,000,000 tons mined - <500,000 milled.
- Aug 28, 1985 Bond form sent to USX.
- Jan 6, 1987 1986 Annual report & permit status from DOGM. Noted that 1977 permit application had not been approved. Requested a revised application be filed.

May 8,1987 1986 Annual report from USX. Stated permit status unchanged. Due to backlog of permits, Division chose to put permit on hold. If sold USX would work out reclamation responsibility, if it closed USX would be responsible.

Jun. 1,1987 Site visit. Noted Division was ready to follow through with permitting quarry. Requested map showing areas not utilized to remove acreage from permit. Reclamation schedule for disturbed areas. Stated that 2' of topsoil would be needed in most areas (excluding highwalls). Stated test plots were not necessary. Provided seed mixture which suggested 200lbs/acre fertilizer. Suggested requesting variances for water impoundment and highwalls.

Nov. 30,1987 Narrative received from USX. Noted that 80% of overburden had been removed pre-act. With changes in SiO₂ cutoff overburden would now become approx. 75% of tonnage shipped from quarry, 25% from mining. Requested variances for highwalls & water impoundment. Stated practice of processing overburden would reduce liability of recontouring and stabilizing dumps. When activity ceases in these areas reclamation would start. Stated that 6" to 8" of soil would be placed over areas that presently are covered with 6" to 8" of -3/4 inch material. *Soil would come from un-patented mining claims* also from Strawberry canal. **Calculations for placing soil on 180 acres, also seed and fertilizer costs. Showed a total bonding liability of \$247,350.00.**

Dec.12,1987 DOGM review of mining and reclamation plan. Granted requested variances. Requested justification of reclamation estimates. DOGM recommended regrading all dump slopes and disturbed areas to 26 ½ degrees.

Dec. 28,1987 1987 annual report, 65,000 tons removed from dumps and pits.

Feb 19,1988 NOI received. Agreed to DOGM's requests. Surety forms received and are being processed. Soil to be purchased from outside source or moved from claims owned by USX. Waste dump slopes will be reduced. Ripping to loosen road beds before soiling. Soil borrow area would be regraded to less than 26 degrees and seeded. This would be an area of about 22 acres adding a reclamation cost of \$11,000 (\$500.00/acre)

Apr. 19,1988 Tentative approval from DOGM. Reclamation bond estimate of \$488,600 - 1988 dollars 706,900 - 2007 dollars. Seeding and fertilizing of 202 acres - no documentation as to where the 202 acres were located.

Apr 19,1988 Tentative approval published. Stated that existing waste dumps would be processed, buildings to be removed and foundations buried, waste disposal areas to be recontoured and top soiled. The plant site, borrow area and waste disposal areas will be scarified seeded & fertilized.

Jun. 30,1987 Site inspection memo from Frank Jensen stating that in final reclamation topsoil would need to be spread over the leveler portions of quarry and seeded. Hand seeding rabbit brush in talus portions. Waste piles should receive topsoil and be reseeded.

Sept.7,1988 Transfer of quarry to Geneva Steel. Geneva bond amount \$502,600 (1993 dollars) notes that surety was replaced 10/24/91. Same reclamation estimate as submitted by USX reflecting 202 acres to be seeded.

Mar. 9,1989	Request for board concurrence of amount and form of Geneva's reclamation surety.
Jan 11,1990	1989 annual report. 319,599 tons mined. 210 acres unreclaimed
Jan. 10,1991	1990 annual report. 213,321 tons mined (no waste). 400 acres disturbed.
Apr. 10,1991	Note to Dianne Nielson on Geneva's self bond.
Oct. 11,1991	Surety estimate update reflecting a bond of \$505,196 (1994 dollars)
Oct. 24,1991	Executed reclamation contract received.
Oct. 29,1991	Site visit. Mr Benson stated that although the company owns 400 acres, he doubted that more than 210 acres would be disturbed.
Feb 3,1992	1991 annual report. 280,115 MT mined - no additional disturbances
Mar. 4,1992	Amendment to NOI submitted. Mining of alluvial fan approx. .8 miles from permitted property. Proposed disturbance 4 acres. 3" to 4" of topsoil to be salvaged and redeposited upon completion. Production rate 25,000 tons annually, to be trucked to quarry for shipment. Slopes to be maintained at 45 degrees, roads to remain. Planting to be the same as present NOI. Intention to reclaim equivalent number of acres of existing Disturbance to maintain 400 acres of disturbance.
Apr. 16.1992	Tentative approval. Need to revise legal description of bonded area.
May 26,1992	NOI to revise mining operations at quarry, notice was reviewed and found to be in order. Statement was made that present bond would cover operations as outlined but it may be determined that the bond may need to be increased at a later date.
Jun. 12,1992	Letter from Roy Benson stating that they were proceeding with project. Stated where possible all slopes would be 26 degrees.
Jun. 22,1992	Approval of Keigley amendment.
Feb 23,1993	1992 annual report. Started quartzite mine(amendment) in Sec 16, disturbed 1.5 acres. Stockpiled 30 loads of topsoil to reclaim existing dumps at Keigley quarry. Would reclaim 3 acres in 1993, reclamation would consist of top soiling and seeding current dump space to offset disturbance at quartzite mine.
Jan 31,1994	1993 annual report. 205,680 tons mined. 2.5 acres reclaimed in 1993 - 1500 cu yds of topsoil from highline canal was spread over dump scarified 1 foot and seeded. Present disturbed area 401.5 acres.
July 21,1994	Surety Renewal/Review. Request to Geneva for a site visit to evaluate the accuracy of the reclamation estimate cost.
Aug. 24,1994	Site visit. 1993 reclamation effort noted, though a dry summer had desiccated the seedlings. Portions of the dump would probably satisfy Division standards, Geneva

would like to retain these areas in their permit to allow them more flexibility. Geneva would be notified of any changes in the surety in several weeks.

Jan. 19, 1995	1994 annual report. 293,204 tons mined - 2.5 acres reclaimed in 1994 - same description as 1993 annual report. 401.5 acres disturbed.
Jan. 25, 1996	1995 annual report. 126,400 tons mined - 2.0 acres reclaimed - top soiled and seeded - vegetation successful. Area that could be released would wait for 5 year review period.
Jan. 15, 1997	1996 annual report. 188,323 tons mined - 401.5 acres total disturbance.
Jan. 5, 1998	1997 annual report. 211,446 tons mined - 401.5 acres disturbed.
Apr. 2, 1998	Replacement of surety bonds. Division noted that they had attempted to contact Geneva to inform them of what new bonding amounts would be needed. Division was informed that Geneva was aware of this. Due to time constraints to reevaluate the mining project, the bond was updated for escalation purposes only.
May 20, 1998	Formal approval of form and amount of replacement reclamation surety. \$615,500 (2003 dollars)
Jun. 29, 1998	Letter from John Blake stating reclamation of Keigley quarry is completed. (Probably area covered by amendment)
Jun. 3, 1999	Notice of Geneva filing Chapter 11 bankruptcy.
Jul. 7, 1999	1998 annual report. 186,473 tons mined - approx 3 acres reclaimed - total disturbance 401.5 acres.
Sep. 16, 1999	Received notice of pending sale of Keigley quarry to Oldcastle Inc.
Oct. 12, 1999	Received Transfer of Notice of Intention for Keigley quarry with surety of \$615,500
Oct. 26, 1999	Received Transfer of Reclamation Obligations from Geneva to Staker Paving (Oldcastle)
Oct. 29, 1999	Transfer of Notice of Intention approved showing 400 acres total approved area with 323 acres being disturbed to date.
Nov. 8, 1999	Division formally approved of large mine permit transfer from Geneva to Staker Paving
Nov. 9, 1999	Received Surety Bond and Signed Reclamation Contract from Staker Paving.